RM-X2001/X2001VF

SERVICE MANUAL

US Model
Canadian Model
AEP Model
RM-X2001
WG Model
RM-X2001VF

SPECIFICATIONS

Tone control	Bass ±10 dB (100 Hz)
	Treble ±10 dB (10 kHz)
Outputs	Line output
Mounting dimensions	
	Commander:
	Approx. 172 × 48 × 25 mm (w/h/d) ($6\frac{7}{8} \times 1\frac{15}{16} \times 1$ in.)
	Control preamplifier:
	Approx. 260 × 36 × 180 mm (w/h/d) ($10\frac{1}{4} \times 1\frac{7}{16} \times 7\frac{1}{8}$ in.)
	incl. projecting parts and controls
Weight	Commander:
	Approx. 0.3 kg (11 oz)
	Control preamplifier:
	Approx. 1.6 kg (3 lb 8 oz)
Supplied accessories	
	Mounting hardware (1 set)
	Extension cord (1)

Design and specifications subject to change without notice.

FEATURES

The RM-X2001 compact disc changer commander changes the discs in the disc magazine, and enables you to play the desired selection of the 10 discs in the desired sequence.

- The changer in the trunk room can be operated with the compact remote commander installed in the car.
- Search function for locating a desired disc and a desired point in the disc.
- The PGM (program) function for choosing the selection, or for playing particular selections in any desired order.
- You can listen to the radio by connecting the tuner unit (optional).

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a computing device pursuant to Subpart J of Part 15 of FCC Rules.

使用時は添付資料も参照のこと
Refer to the additional documents.

CD CHANGER COMMANDER

SONY®

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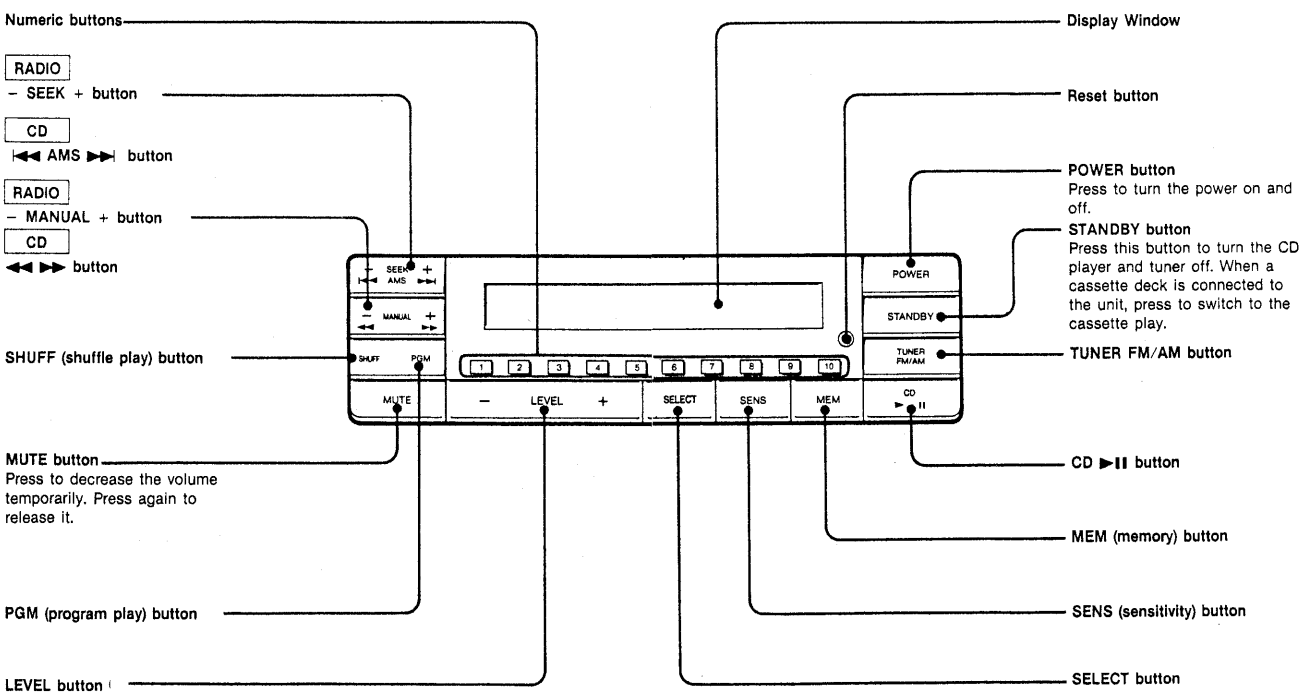
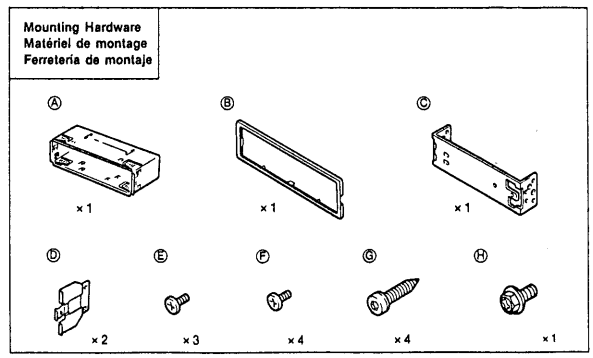
SECTION 1
GENERAL

LOCATION AND FUNCTION OF CONTROLS



Installation/Connections
Installation/Connexions
Instalación/Conexiones

Sony Corporation ©1989 Printed in Japan



INSTALLATION OF THE REMOTE COMMANDER

Before installation
Choose the mounting location carefully so that the unit will not interfere with normal driving functions and so that the unit will not be exposed to direct sunlight or hot air from the heater.

If you are unsure of the best installation, please ask for assistance at the shop where the unit was purchased, or your nearest dealer.

INSTALLATION DE LA TELECOMMANDE

Avant l'installation
Choisir soigneusement l'emplacement de l'installation afin que l'appareil ne gêne nullement la conduite et qu'il ne soit pas exposé au rayonnement solaire direct, ou à l'air du chauffage.

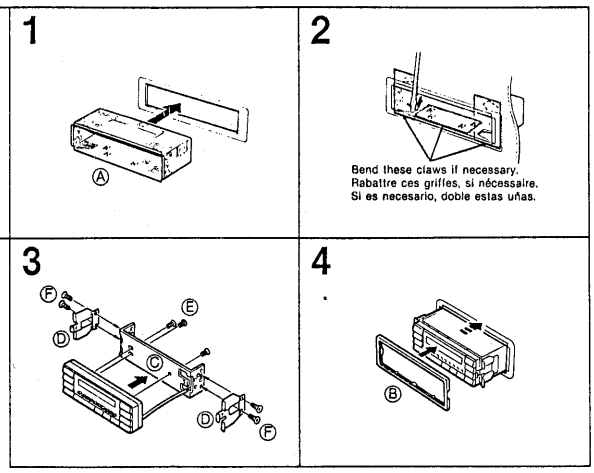
Si l'on n'est pas sûr de l'installation, demander conseil au magasin où l'appareil a été acquis, ou au concessionnaire le plus proche.

INSTALACIÓN DEL CONTROLADOR REMOTO

Antes de la instalación
Elija cuidadosamente el lugar de montaje de forma que la unidad no impida las funciones normales de conducción y no quede expuesta a la luz solar directa ni al aire caliente de la calefacción.

Si no está seguro de cuál es la mejor instalación, solicite ayuda a la tienda donde haya adquirido la unidad, o a su proveedor.

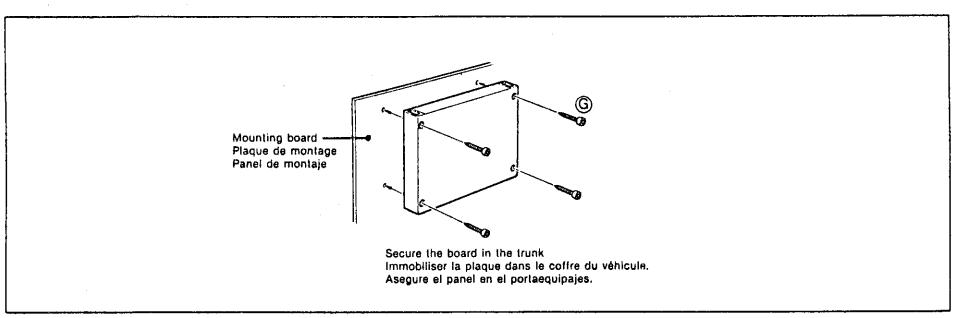
Installing in the dashboard of the car room
Encastrement dans le tableau de bord du véhicule
Instalación en el salpicadero del automóvil



Installation of the Control Preamplifier
Drill the holes (ø 4 mm or smaller) in a suitable mounting board, and attach the unit to it.

Installation du préamplificateur de contrôle
Percer les trous (diamètre de 4 mm ou inférieur) sur une plaque de montage convenable, et y fixer l'appareil.

Instalación del preamplificador de control
Taladre orificios (4 mm o menos de diá.) en un panel de montaje adecuado, e instale en él la unidad.


Mounting board
Plaque de montage
Panel de montaje
G
Secure the board in the trunk
Immobiliser la plaque dans le coffre du véhicule.
Asegure el panel en el portaequipajes.

CONNECTIONS

Caution

- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the **red** power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- Run all ground wires to a common ground point.

Memory-hold connection
When the yellow power input lead is connected as shown, power will be always supplied to the memory circuit even when the ignition key is switched off.

The name and function of each lead from the RM-X2001 can be determined by its color as described below.

Blue/white striped	Power AMP activation lead
Gray	Remote control output and input lead
Yellow	Power input lead
Red	Power input lead
Red/white striped	Power control lead (for XK-8D only)
Orange/white striped	Lighting lead*
Black	Ground wire

* When this lead is connected to the lighting control terminal, the illumination of the remote commander is on when the car's instrument panel is lit.
If you want to illuminate the remote commander whenever the ignition key is switched on, connect the lead to the ⊕ 12 V power terminal which is energized when the ignition key is in the accessory position.

After all leads have been connected, press the Reset button of the RM-X2001 with a pencil or similar object.

CONNEXIONS

Attention

- Avant de procéder aux connexions, débrancher la borne de masse de la batterie de voiture pour éviter tout court-circuit.
- Raccorder les fils d'entrée d'alimentation **jaune** et **rouge** uniquement lorsque tous les autres fils ont été branchés.
- Veiller à raccorder le fil d'entrée d'alimentation **rouge** à la borne d'alimentation positive de 12 V, qui est énergétisée lorsque la clé de contact est à la position accessoire.
- Tirer tous les fils de masse en un même point.

Connexion pour maintien en mémoire
Lorsque le fil d'entrée d'alimentation jaune est raccordé comme illustré, l'alimentation sera toujours fournie au circuit de mémoire, même si le contact est coupé.

Le nom et la fonction de chaque fil du RM-X2001 peuvent être déterminés par sa couleur, comme décrit ci-dessous.

Bleu rayé blanc	Fil d'activation de l'amplificateur de puissance
Gris	Fil de sortie et d'entrée de contrôle de la télécommande
Jaune	Fil d'entrée d'alimentation
Rouge	Fil d'entrée d'alimentation
Rouge rayé blanc	Fil de contrôle d'alimentation (pour XK-8D uniquement)
Orange rayé blanc	Fil de l'éclairage*
Noir	Fil de masse

* Lorsque ce fil est raccordé à la borne de contrôle de l'éclairage, l'éclairage de la télécommande est synchronisé à celui du tableau de bord du véhicule. Si l'on souhaite que la télécommande soit éclairée lorsque la clé de contact est commutée sur marche, raccorder le fil à la borne d'alimentation positive de 12 V, qui est énergétisée lorsque la clé de contact se trouve sur la position accessoire.

Lorsque tous les fils ont été raccordés, appuyer sur la touche de réinitialisation du RM-X2001 à l'aide d'un crayon ou d'un objet similaire.

CONEXIONES

Precauciones

- Antes de realizar las conexiones, desconecte el terminal de masa de la batería del automóvil para evitar cortocircuitos.
- Conecte los conductores de entrada de alimentación **amarillo**, y **rojo** solamente después de haber conectado todos los demás.
- Asegúrese de conectar el conductor de entrada de alimentación **rojo** a un terminal de alimentación de 12 V positivo que se energice al poner la llave de encendido en la posición para accesorios.
- Conecte todos los conductores de masa a un punto metálico común del automóvil.

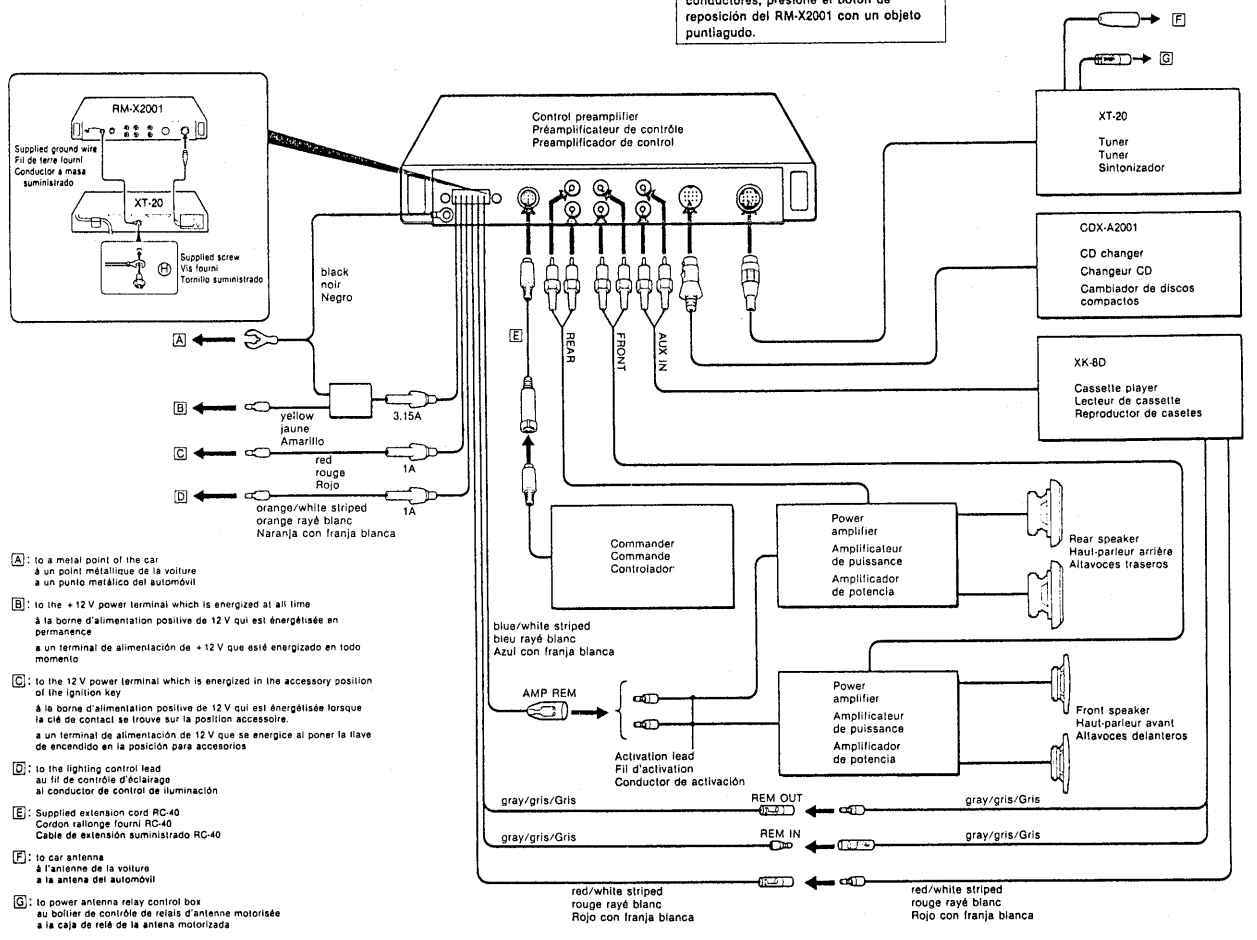
Conexión para protección de la memoria
Si conecta el conductor de entrada de alimentación amarillo como se indica, el circuito de la memoria recibirá siempre alimentación aunque ponga la llave de encendido en OFF.

El nombre y la función de cada conductor del RM-X2001 podrán determinarse mediante su color, como se describe a continuación.

Azul con franja blanca	Conductor de activación del amplifier de potencia
Gris	Conductor de salida y entrada de control remoto
Amarillo	Conductor de entrada de alimentación
Rojo	Conductor de entrada de alimentación
Rojo con franja blanca	Conductor de control de alimentación (para XK-8D solamente)
Naranja con franja blanca	Conductor de iluminación*
Negro	Conductor de masa

* Si conecta este conductor al terminal de control de iluminación, la iluminación del controlador remoto se activará cuando ilumine el panel de instrumentos del automóvil.
Si desea iluminar el controlador remoto cada vez que ponga en ON la llave de encendido, conecte el conductor al terminal de 12 V ⊕ que se energice al poner la llave de encendido en la posición para accesorios.

Después de haber conectado todos los conductores, presione el botón de reposición del RM-X2001 con un objeto puntiagudo.



[A]: to a metal point of the car
à un point métallique de la voiture
a un punto metálico del automóvil

[B]: to the + 12 V power terminal which is energized at all time
à la borne d'alimentation positive de 12 V qui est énergétisée en permanence
a un terminal de alimentación de + 12 V que esté energizado en todo momento

[C]: to the 12 V power terminal which is energized in the accessory position of the ignition key
à la borne d'alimentation positive de 12 V qui est énergétisée lorsque la clé de contact se trouve sur la position accessoire.
a un terminal de alimentación de 12 V que se energice al poner la llave de encendido en la posición para accesorios

[D]: to the lighting control lead
au fil de contrôle d'éclairage
al conductor de control de iluminación

[E]: Supplied extension cord RC-40
Cordon rallonge fourni RC-40
Cable de extensión suministrado RC-40

[F]: to car antenna
à l'antenne de la voiture
a la antena del automóvil

[G]: to power antenna relay control box
au boîtier de contrôle de relais d'antenne motorisée
a la caja de relé de la antena motorizada

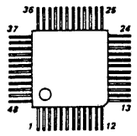
SECTION 2
DIAGRAMS

2-1. REMOTE COMMANDER SECTION PRINTED WIRING BOARDS

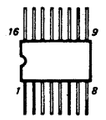
● See pages 10 to 12 for Hideaway Unit Section.

● **Semiconductor Lead Layouts**

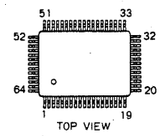
LC7537AN



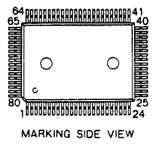
TC4050BF



μPD75108GF-J31-3BE

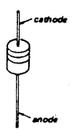


μPD75308GF-017-3B9

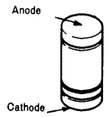


2SA1175-HFE
2SC2785-HFE
2SD1020-F

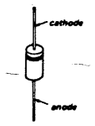
RD5.1ES-B2
RD5.6ES-B2
RD6.2ES-B2
RD7.5ES-B2
RD9.1ES-B2
1SS119



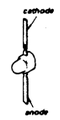
RLS-4148



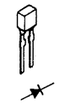
10E2



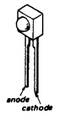
GL-HY111



GL-9EG44
GL-9HY44

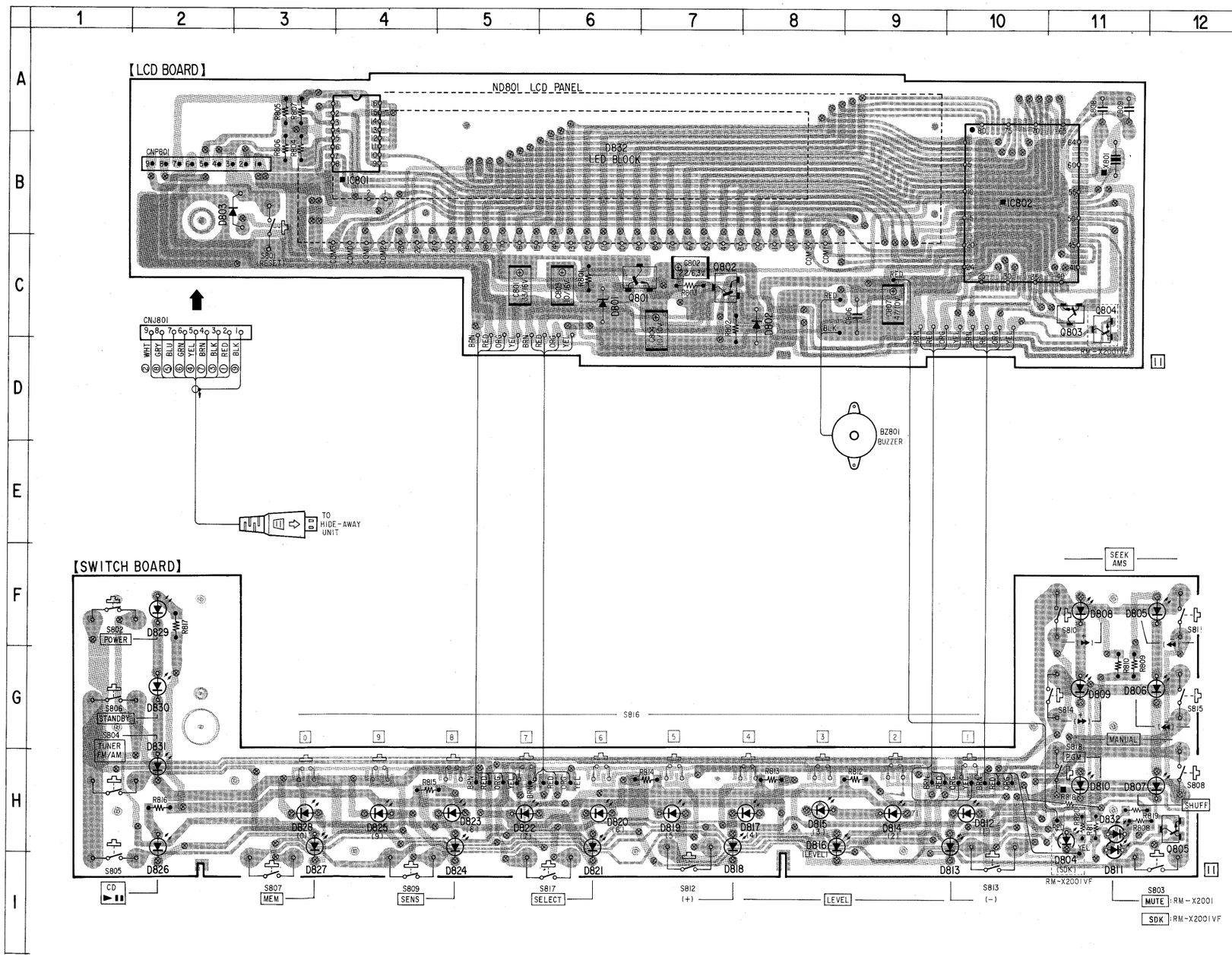


TLG223



● **Semiconductor Location**

Ref. No.	Location
D801	C-6
D802	C-7
D803	B-2
D804	H-10
D805	F-11
D806	F-11
D807	G-11
D808	F-10
D809	F-10
D810	G-10
D811	H-10
D812	H-9
D813	H-9
D814	H-8
D815	H-8
D816	H-8
D817	H-7
D818	H-7
D819	H-6
D820	H-6
D821	H-6
D822	H-5
D823	H-4
D824	H-4
D825	H-4
D826	H-2
D827	H-3
D828	H-3
D829	F-2
D830	F-2
D831	G-2
D832	B-6
IC801	B-3
IC802	B-9
Q801	C-6
Q802	C-7
Q803	C-10



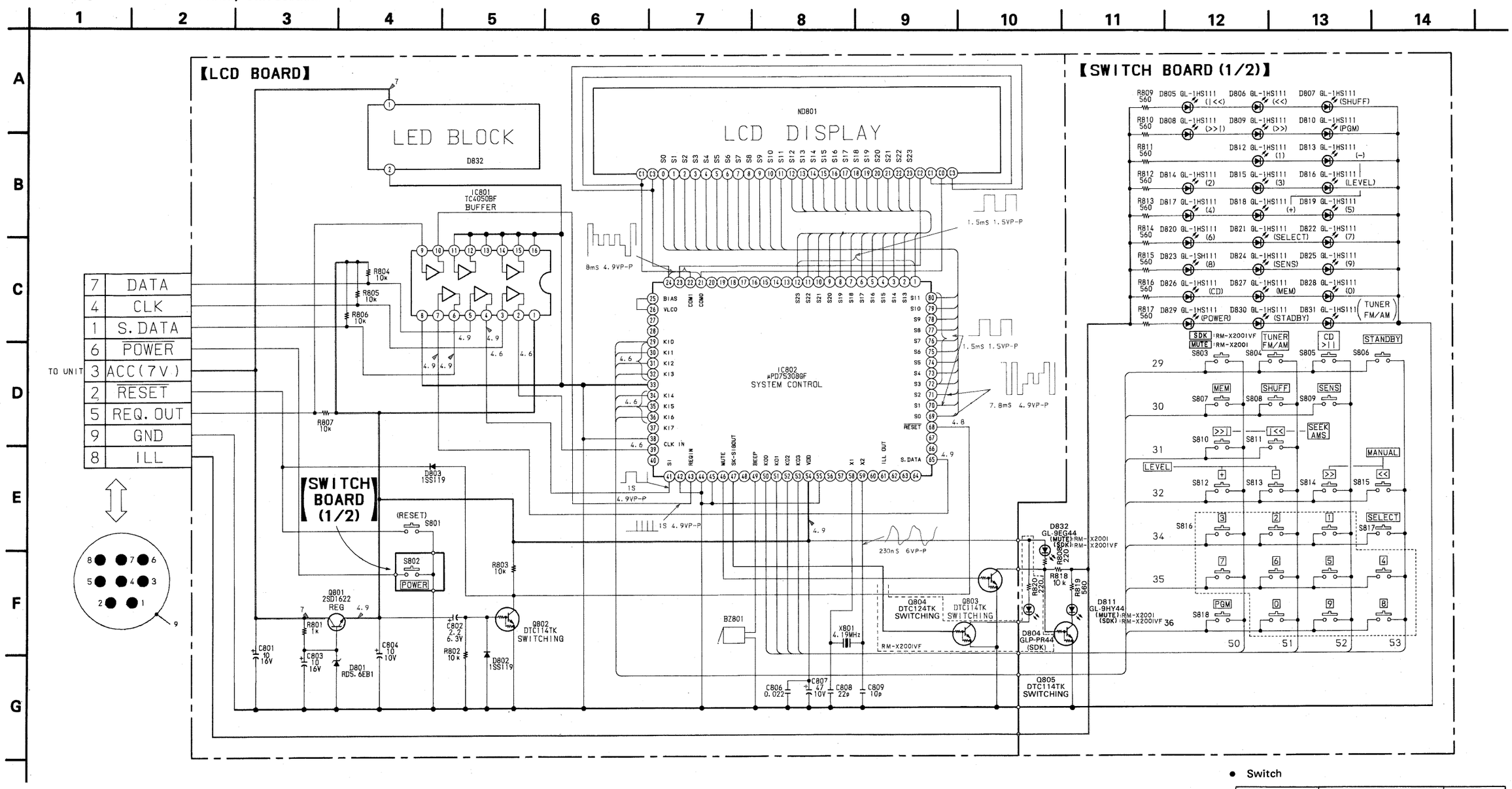
Note on Printed Wiring Board:

Note:

- ○——— : parts extracted from the component side.
- ●——— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ⊗, ● : Through hole.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.

2-2. REMOTE COMMANDER SECTION SCHEMATIC DIAGRAM

● See pages 13 to 15 for Hideaway Unit Section.



Note on Schematic Diagram:

Note:

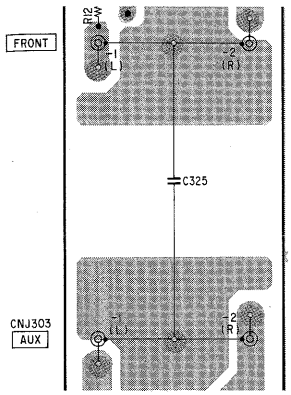
- **All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.**
- **All resistors are in Ω and ¼ W or less unless otherwise specified.**
- **Power voltage is dc 14.4 V and fed with regurated dc power supply from external power voltage jack.**
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (10 kΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Wavefroms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.

- Switch

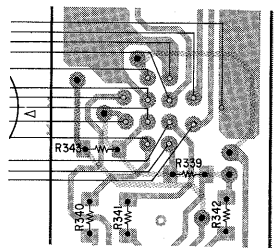
Ref. No.	Switch	Position
S801	(RESET)	OFF
S802	POWER	OFF
S803	MUTE	OFF
S804	TUNER FM/AM	OFF
S805	CD ▶ ❚❚	OFF
S806	STANDBY	OFF
S807	MEMORY	OFF
S808	SHUFFLE	OFF
S809	SENSE	OFF
S810	SEEK/AMS ▶▶|	OFF
S811	SEEK/AMS |◀◀	OFF
S812	LEVEL+	OFF
S813	LEVEL−	OFF
S814	MANUAL ▶▶	OFF
S815	MANUAL ◀◀	OFF
S817	SELECT	OFF
S818	PROGRAM	OFF

• HIDEAWAY UNIT SECTION PRINTED WIRING BOARDS FORMER TYPE (THE END OF BOARD PART No.: –11)

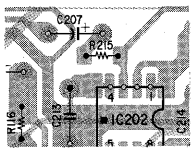
[PIN JACK BOARD]
(Location: C to E – 2 to 3)



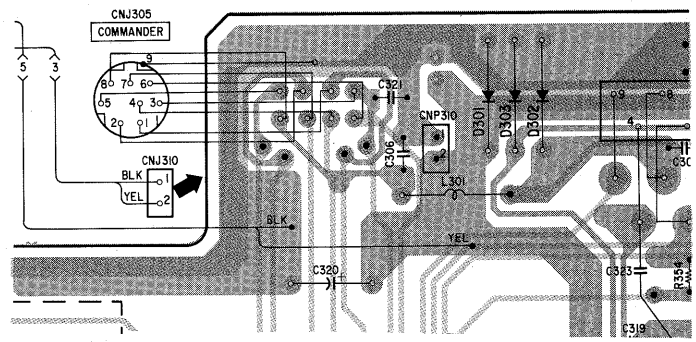
[TUNER BOARD]
(Location: J to K – 2)



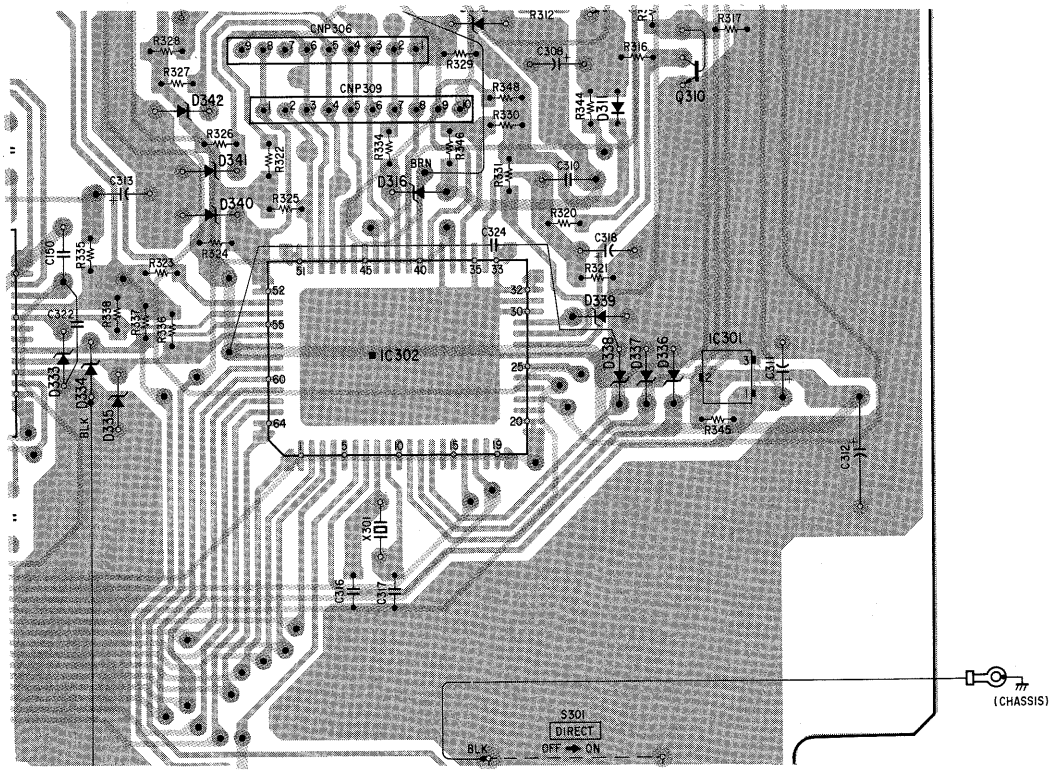
[HIDEAWAY BOARD]
(Location: J – 8 to 9)



(Location: A to B – 13 to 16)



(Location: G to J – 13 to 18)



2-3. HIDEAWAY UNIT SECTION PRINTED WIRING BOARDS

● See page 5 for notes and Semiconductor Lead Layouts.

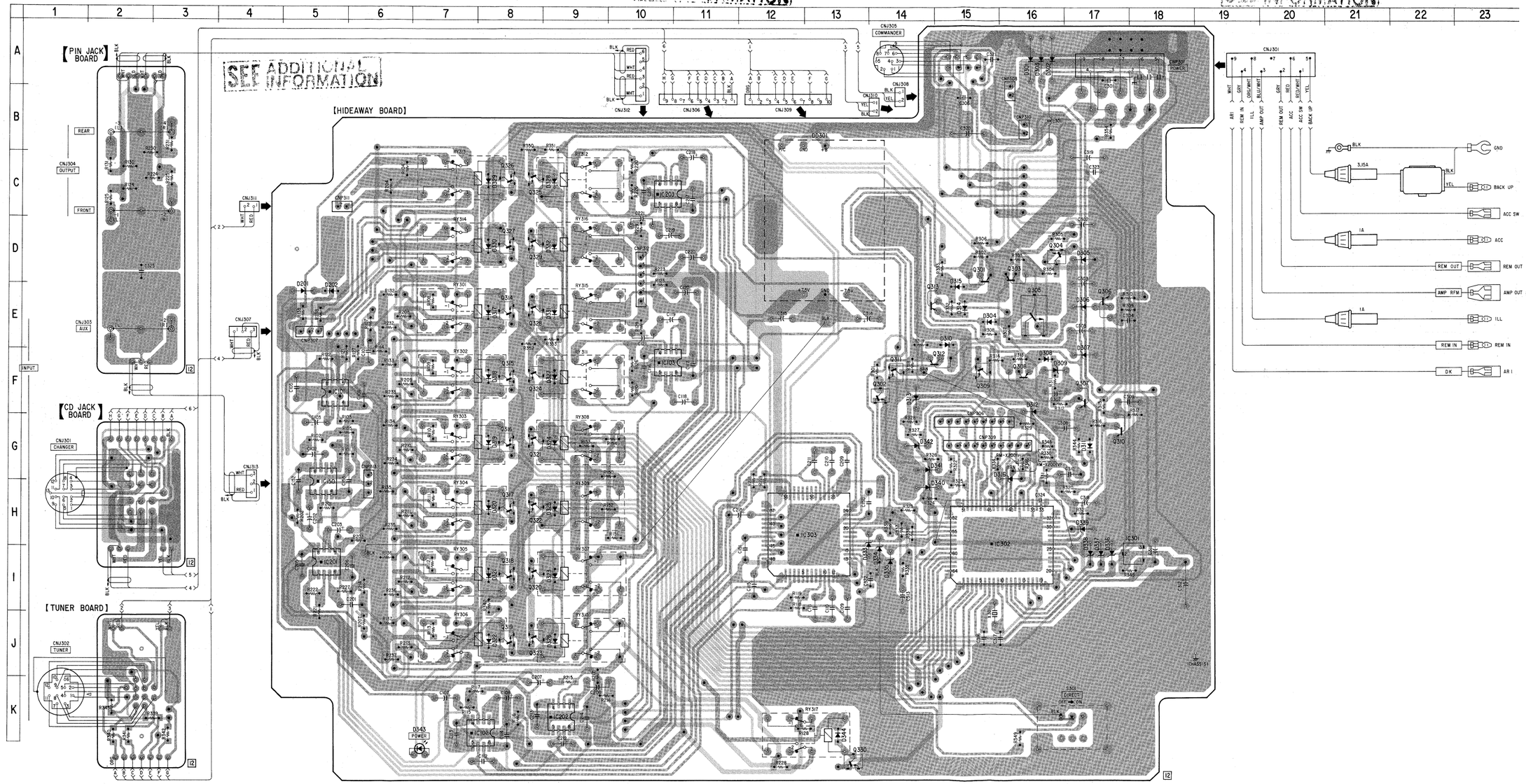
● Semiconductor Location

Ref. No.	Location
D201	D-5
D202	D-5
D301	A-15
D302	A-16
D303	A-15
D304	E-15
D305	D-16
D306	E-16
D307	E-16
D308	E-15
D309	F-16
D310	E-14
D311	G-16
D312	F-15
D313	F-14
D314	E-14
D315	D-14
D316	G-15
D317	E-7
D318	F-7
D319	G-7
D320	H-7
D321	H-7
D322	I-7
D323	H-8
D324	G-8
D325	G-8
D326	I-8
D327	F-8
D328	C-8
D329	C-7
D330	D-7
D331	E-8
D332	D-8
D333	H-13
D334	H-13
D335	H-13
D336	H-16
D337	H-16
D338	H-16
D339	H-16
D340	G-14
D341	G-14
D342	G-14
D343	K-6
D344	K-12
IC101	F-5
IC102	K-7
IC103	E-10
IC150	G-5
IC201	H-5
IC202	K-8
IC203	C-10
IC301	H-17
IC302	H-15
IC303	H-12
Q301	D-15
Q302	F-13
Q303	D-15
Q304	D-16
Q305	E-15
Q306	E-16
Q307	F-16
Q308	F-15
Q309	F-15
Q310	F-17
Q311	E-13
Q312	E-14
Q313	D-14
Q314	E-8
Q315	F-8
Q316	G-8
Q317	G-8
Q318	H-8
Q319	I-8
Q320	H-8
Q321	G-8
Q322	H-8
Q323	I-8
Q324	F-8
Q325	C-8
Q326	C-8
Q327	D-8
Q328	E-8
Q329	D-8
Q330	K-13

SEE ADDITIONAL INFORMATION

SEE ADDITIONAL INFORMATION

SEE ADDITIONAL INFORMATION



SEE ADDITIONAL INFORMATION

SEE ADDITIONAL INFORMATION

SEE ADDITIONAL INFORMATION

【HIDEAWAY BOARD】

【PIN JACK BOARD(1/2)】

【PIN JACK BOARD(1/2)】

【TUNER BOARD】

【CD JACK BOARD】

IC101 TL082W BUFFER

IC101

IC102 TL082W AF AMP

IC102 TL082W TONE AMP

IC102

IC102 TL082W TONE AMP

IC103 TL082W AF AMP

IC103

IC150 M5280FP ISOLATION AMP

IC150

IC303 LC75373AN TONE

IC303

IC302 μPD75108F-301-3B6 SYSTEM CONTROL

IC302

IC301 S-8054HN VOLT DET

IC301

R-CH IC201, 202

R-CH IC202, 203

TUNER

INPUT

CHANGER

COMMANDER

AUX

OUTPUT

POWER

CNJ303

CNJ304

CNJ305

CNJ301

CNJ302

CNP313

CNP311

CNP312

CNP309

CNP310

CNP306

CNP307

CNP308

CNP301

DD301 DC-DC CONVERTER

S301 DIRECT

RM-X2001

RM-X2001VF

*1.5k:RM-X2001 2k:RM-X2001VF

SECTION 3
EXPLODED VIEWS

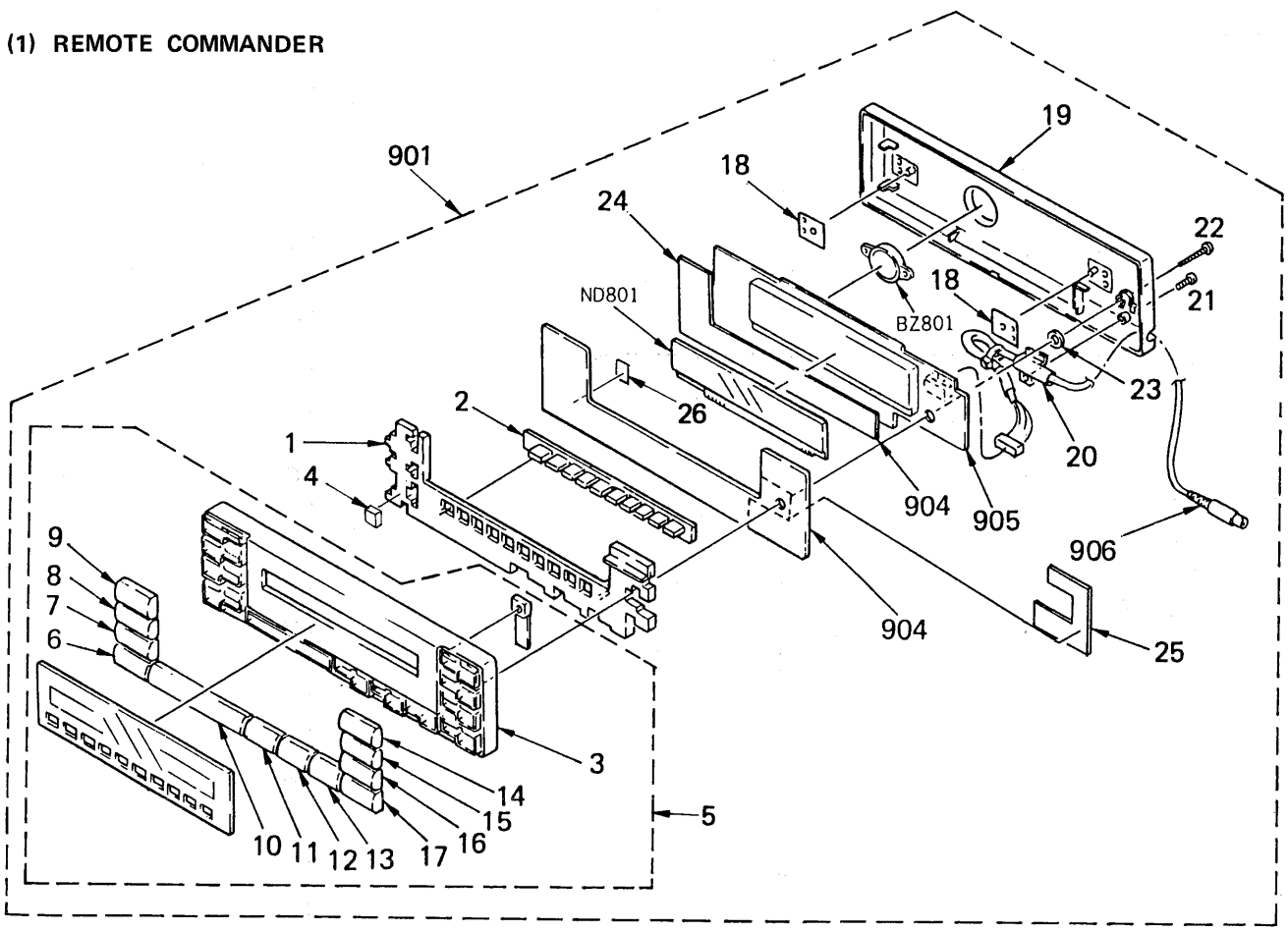
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) ... KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

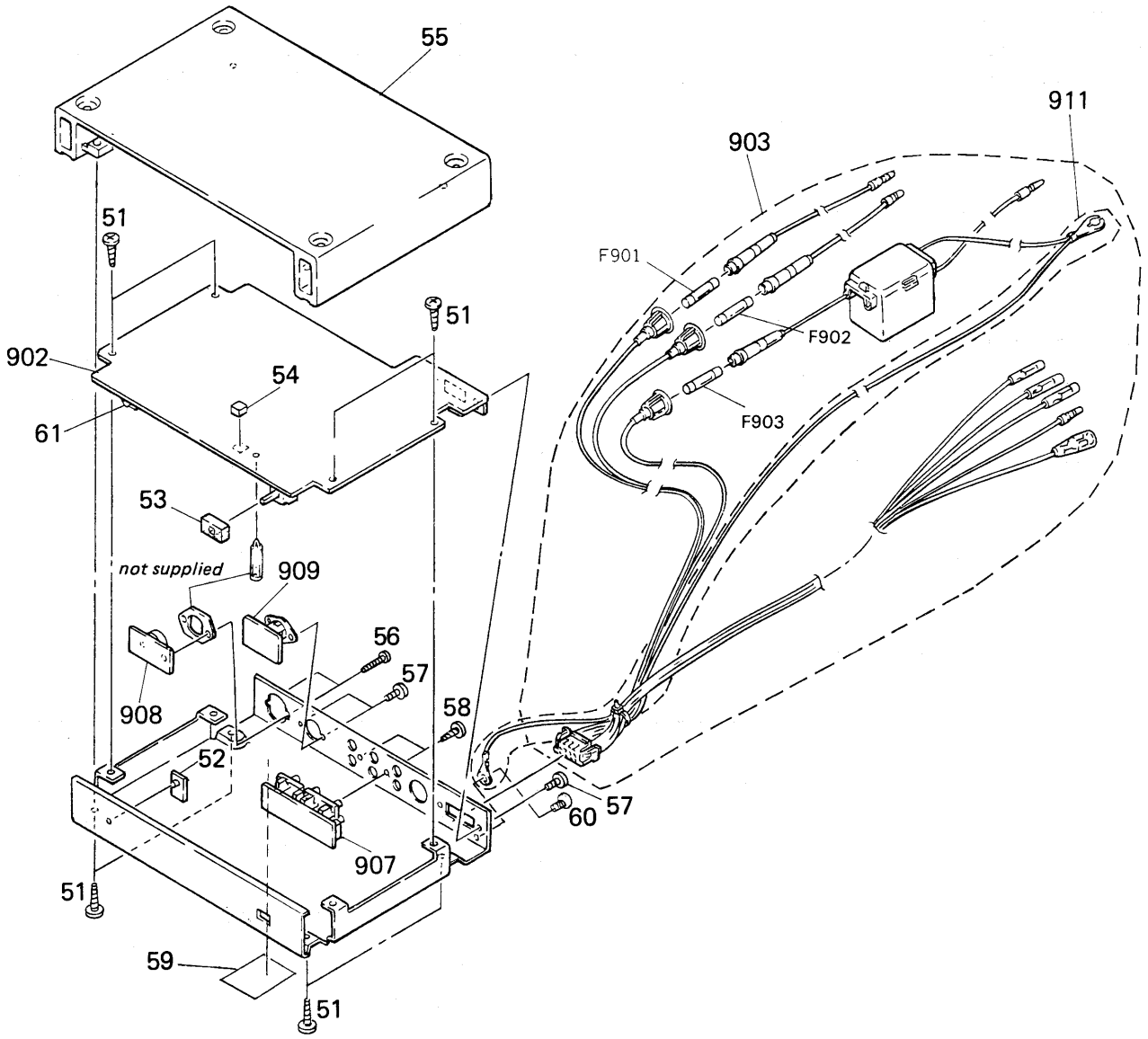
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

(1) REMOTE COMMANDER



No.	Part No.	Description	Remarks
1	2-358-523-01	CHASSIS, MOLD	
2	2-358-511-21	RUBBER, CONTACT	
3	2-358-525-11	CASE, FRONT	
4	2-358-566-01	SPACER (H), LED	
5	X-2358-507-1	(US,Canadian,AEP)...PANEL ASSY, FRONT	
	X-2358-511-1	(West Germany).....PANEL ASSY, FRONT	
6	2-358-517-11	(US,Canadian,AEP)...BUTTON (L)(MUTE)	
	2-358-556-11	(West Germany).....BUTTON (M)(SDK)	
7	2-358-518-31	BUTTON (K)(SHUFF,PGM)	
8	2-358-518-21	BUTTON (J)(MANUAL)	
9	2-358-520-11	BUTTON (I)(SEEK,AMS)	
10	2-358-516-11	BUTTON (H)(LEVEL)	
11	2-358-515-51	BUTTON (G)(SELECT)	
12	2-358-515-41	BUTTON (F)(SENS)	
13	2-358-515-31	BUTTON (E)(MEM)	
14	2-358-512-11	BUTTON (A)(POWER)	
15	2-358-513-21	BUTTON (B)(STANDBY)	
16	2-358-513-31	BUTTON (C)(TUNER)	
17	2-358-514-11	BUTTON (D)(CD)	
18	*3-329-515-01	BLACKET, HOOK	
19	2-358-524-11	CASE, REAR	
20	*2-358-509-01	CLAMP, CORD	
21	2-358-546-01	SCRWE (+P) (M2X4), PC	
22	7-685-135-19	SCREW +P 2.6X10 TYPE2 NON-SLIT	
23	2-358-526-01	TAPE (B), INSULATING	
24	*2-358-550-01	SHEET (A), INSULATING	
25	*2-358-549-01	SHEET (B), INSULATING	
26	*3-337-013-01	SHEET (E)	
901	*A-3201-835-A	(US,Canadian,AEP)...COMMANDER COMPLETE ASSY 1-26,904-906,BZ801,ND801	
	*A-3201-918-A	(West Germany).....COMMANDER COMPLETE ASSY 1-26,904-906,BZ801,ND801	
904	*1-626-302-11	PC BOARD, SW	
905	*1-626-303-11	PC BOARD, LCD	
906	1-559-687-11	CORD (WITH CONNECTOR)	
BZ801	1-529-055-11	BUZZER, PIEZOELECTRIC	
ND801	1-807-318-11	LIQUID CRYSTAL DISPLAY PANEL	

(2) HIDEAWAY UNIT



No.	Part No.	Description	Remarks
51	7-682-547-09	SCREW, +B3X6	
52	*2-116-809-01	INDICATOR	
53	*2-358-579-01	COVER (SW)	
54	9-911-842-XX	CUSHION (F)	
55	*2-358-582-01	CASE (UPPER)	
56	7-621-772-40	SCREW +B 2X8	
57	7-682-647-09	SCREW +PSW 3X6	
58	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
59	*2-138-003-01	(Canadian).....LABEL, MODEL NUMBER	
	*2-138-009-01	(West Germany)...LABEL, MODEL NUMBER(AE6)	
	*2-358-584-01	(US,AEP).....LABEL, MODEL NUMBER (U)	
60	3-344-501-11	SCREW (+ PTT 3X8), GROUND POINT	
61	*2-358-583-01	HOLDER, LED	

No.	Part No.	Description	Remarks
902	*A-3279-870-A	(US,Canadian,AEP)...MOUNTED PCB, HIDEAWAY	
	*A-3279-911-A	(West Germany).....MOUNTED PCB, HIDEAWAY	
903	1-574-838-11	CORD (WITH PLUG)	
907	*1-631-621-12	PC BOARD, PIN JACK	
908	*1-631-622-12	PC BOARD, TUNER	
909	*1-631-623-12	PC BOARD, CD JACK	
911	1-574-283-11	CORD (WITH TERMINAL)	
F901	⚠.1-532-360-XX	FUSE, GLASS TUBE 1A	
F902	⚠.1-532-360-XX	FUSE, GLASS TUBE 1A	
F903	⚠.1-532-419-00	FUSE, GLASS TUBE 3.15A	

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

SEE ADDITIONAL INFORMATION

SECTION 4

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			
901	*A-3201-835-A	(US,Canadian,AEP)...COMMANDER COMPLETE ASSY 1-26,904-906,BZ801,ND801			
	*A-3201-918-A	(West Germany).....COMMANDER COMPLETE ASSY 1-26,904-906,BZ801,ND801			
902	*A-3279-870-A	(US,Canadian,AEP)...MOUNTED PCB, HIDEAWAY			
	*A-3279-911-A	(West Germany).....MOUNTED PCB, HIDEAWAY			
903	1-574-838-11	CORD (WITH PLUG)			
904	*1-626-302-11	PC BOARD, SW			
905	*1-626-303-11	PC BOARD, LCD			
906	1-559-687-11	CORD (WITH CONNECTOR)			
907	*1-631-621-12	PC BOARD, PIN JACK			
908	*1-631-622-12	PC BOARD, TUNER			
909	*1-631-623-12	PC BOARD, CD JACK			
911	1-574-283-11	CORD (WITH TERMINAL)			
BZ801	1-529-055-11	BUZZER, PIEZOELECTRIC			
C101	1-136-175-00	FILM	0.68MF	5%	50V
C102	1-126-059-11	ELECT	10MF	20%	50V
C103	1-123-333-00	ELECT	100MF	20%	25V
C105	1-130-495-00	MYLAR	0.1MF	5%	50V
C106	1-130-495-00	MYLAR	0.1MF	5%	50V
C107	1-124-963-11	ELECT	33MF	20%	16V
C108	1-123-357-00	ELECT	22MF	20%	50V
C109	1-130-477-00	MYLAR	0.0033MF	5%	50V
C110	1-130-491-00	MYLAR	0.047MF	5%	50V
C111	1-130-491-00	MYLAR	0.047MF	5%	50V
C112	1-107-157-00	MICA	27PF	5%	500V
C113	1-130-495-00	MYLAR	0.1MF	5%	50V
C114	1-130-495-00	MYLAR	0.1MF	5%	50V
C115	1-123-357-00	ELECT	22MF	20%	50V
C116	1-130-495-00	MYLAR	0.1MF	5%	50V
C117	1-130-495-00	MYLAR	0.1MF	5%	50V
C118	1-123-343-00	ELECT	33MF	20%	35V
C119	1-123-343-00	ELECT	33MF	20%	35V
C120	1-123-343-00	ELECT	33MF	20%	35V
C121	1-123-343-00	ELECT	33MF	20%	35V
C150	1-130-495-00	MYLAR	0.1MF	5%	50V
C151	1-130-495-00	MYLAR	0.1MF	5%	50V
C152	1-130-495-00	MYLAR	0.1MF	5%	50V
C153	1-130-495-00	MYLAR	0.1MF	5%	50V
C201	1-136-175-00	FILM	0.68MF	5%	50V
C202	1-126-059-11	ELECT	10MF	20%	50V
C203	1-123-333-00	ELECT	100MF	20%	25V
C205	1-130-495-00	MYLAR	0.1MF	5%	50V
C206	1-130-495-00	MYLAR	0.1MF	5%	50V
C207	1-124-963-11	ELECT	33MF	20%	16V
C208	1-123-357-00	ELECT	22MF	20%	50V
C209	1-130-477-00	MYLAR	0.0033MF	5%	50V
C210	1-130-491-00	MYLAR	0.047MF	5%	50V
C211	1-130-491-00	MYLAR	0.047MF	5%	50V
C212	1-107-157-00	MICA	27PF	5%	500V
C213	1-130-495-00	MYLAR	0.1MF	5%	50V
C214	1-130-495-00	MYLAR	0.1MF	5%	50V
C215	1-123-357-00	ELECT	22MF	20%	50V
C216	1-130-495-00	MYLAR	0.1MF	5%	50V
C217	1-130-495-00	MYLAR	0.1MF	5%	50V
C218	1-123-343-00	ELECT	33MF	20%	35V
C219	1-123-343-00	ELECT	33MF	20%	35V
C220	1-123-343-00	ELECT	33MF	20%	35V
C221	1-123-343-00	ELECT	33MF	20%	35V
C301	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C302	1-123-321-00	ELECT	220MF	20%	16V
C303	1-124-963-11	ELECT	33MF	20%	16V
C304	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C305	1-124-963-11	ELECT	33MF	20%	16V
C306	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C307	1-124-963-11	ELECT	33MF	20%	16V
C308	1-123-356-00	ELECT	10MF	20%	16V
C309	1-130-495-00	MYLAR	0.1MF	5%	50V
C310	1-130-495-00	MYLAR	0.1MF	5%	50V
C311	1-123-380-00	ELECT	1MF	20%	50V
C312	1-125-486-11	DOUBLE LAYERS	0.22F		5.5V
C313	1-124-463-00	ELECT	0.1MF	20%	50V
C314	1-124-360-00	ELECT	1000MF	20%	16V
C315	1-124-360-00	ELECT	1000MF	20%	16V
C316	1-163-169-00	CERAMIC CHIP	33PF	5%	50V
C317	1-163-169-00	CERAMIC CHIP	33PF	5%	50V
C318	1-124-963-11	ELECT	33MF	20%	16V
C319	1-124-887-00	ELECT	3300MF	20%	16V
C320	1-124-887-00	ELECT	3300MF	20%	16V
C321	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C322	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C323	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C324	1-164-159-11	CERAMIC	0.1MF		50V
C325	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C801	1-135-159-21	TANTAL. CHIP	10MF	20%	16V
C802	1-135-149-21	TANTAL. CHIP	2.2MF	20%	6.3V
C803	1-135-159-21	TANTAL. CHIP	10MF	20%	16V
C804	1-135-159-21	TANTAL. CHIP	10MF	20%	10V
C806	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C807	1-135-166-21	TANTAL. CHIP	47MF	20%	10V
C808	1-163-165-00	CERAMIC CHIP	22PF	5%	50V
C809	1-163-157-00	CERAMIC CHIP	10PF	5%	50V

SEE ADDITIONAL INFORMATION

Ref.No.	Part No.	Description
CN801	*1-506-587-11	PIN HEADER, ANGLE 9P
CNJ301	1-565-066-11	SOCKET 13P
CNJ302	1-565-065-11	SOCKET 12P
CNJ303	1-507-912-41	JACK, PIN 2P
CNJ304	1-507-909-21	JACK, PIN 4P
CNJ305	1-568-568-11	SOCKET, CONNECTOR 8P
CNP301	1-162-143-00	CONNECTOR (WITH CAPACITOR)
CNP306	*1-506-991-11	PIN, CONNECTOR (PC BOARD) 9P
CNP307	*1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P
CNP308	*1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P
CNP309	*1-506-992-11	PIN, CONNECTOR (PC BOARD) 10P
CNP310	*1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P
CNP311	*1-506-984-31	PIN, CONNECTOR (PC BOARD) 2P
CNP312	*1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P
CNP313	*1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P
D201	8-719-109-85	DIODE RD5.1ES-B2
D202	8-719-976-19	DIODE RLS-4148
D301	8-719-200-02	DIODE 10E-2
D302	8-719-200-02	DIODE 10E-2
D303	8-719-200-02	DIODE 10E-2
D304	8-719-976-19	DIODE RLS-4148
D305	8-719-110-13	DIODE RD9.1ES-B2
D306	8-719-110-03	DIODE RD7.5ES-B2
D307	8-719-109-85	DIODE RD5.1ES-B2
D308	8-719-976-19	DIODE RLS-4148
D309	8-719-109-93	DIODE RD6.2ES-B2
D310	8-719-976-19	DIODE RLS-4148
D311	8-719-976-19	DIODE RLS-4148
D312	8-719-109-85	DIODE RD5.1ES-B2
D313	8-719-109-85	DIODE RD5.1ES-B2
D314	8-719-976-19	DIODE RLS-4148
D315	8-719-976-19	DIODE RLS-4148
D316	8-719-109-85	DIODE RD5.1ES-B2
D317	8-719-976-19	DIODE RLS-4148
D318	8-719-976-19	DIODE RLS-4148
D319	8-719-976-19	DIODE RLS-4148
D320	8-719-976-19	DIODE RLS-4148
D321	8-719-976-19	DIODE RLS-4148
D322	8-719-976-19	DIODE RLS-4148
D323	8-719-976-19	DIODE RLS-4148
D324	8-719-976-19	DIODE RLS-4148
D325	8-719-976-19	DIODE RLS-4148
D326	8-719-976-19	DIODE RLS-4148
D327	8-719-976-19	DIODE RLS-4148
D328	8-719-976-19	DIODE RLS-4148
D329	8-719-976-19	DIODE RLS-4148
D330	8-719-976-19	DIODE RLS-4148
D331	8-719-976-19	DIODE RLS-4148
D332	8-719-976-19	DIODE RLS-4148
D333	8-719-109-85	DIODE RD5.1ES-B2
D334	8-719-109-85	DIODE RD5.1ES-B2
D335	8-719-109-85	DIODE RD5.1ES-B2
D336	8-719-109-85	DIODE RD5.1ES-B2
D337	8-719-109-85	DIODE RD5.1ES-B2
D338	8-719-109-85	DIODE RD5.1ES-B2
D339	8-719-109-85	DIODE RD5.1ES-B2
D340	8-719-109-85	DIODE RD5.1ES-B2

Ref.No.	Part No.	Description
D341	8-719-109-85	DIODE RD5.1ES-B2
D342	8-719-109-85	DIODE RD5.1ES-B2
D343	8-719-800-99	DIODE TLG223
D344	8-719-976-19	DIODE RLS-4148
D801	8-719-109-89	DIODE RD5.6ES-B2
D802	8-719-911-19	DIODE 1SS119
D803	8-719-911-19	DIODE 1SS119
D804	8-719-970-72	(West Germany)...DIODE GLP-PR44
D805	8-719-970-14	DIODE GL1HY111
D806	8-719-970-14	DIODE GL1HY111
D807	8-719-970-14	DIODE GL1HY111
D808	8-719-970-14	DIODE GL1HY111
D809	8-719-970-14	DIODE GL1HY111
D810	8-719-970-14	DIODE GL1HY111
D811	8-719-936-78	DIODE GL9HY44
D812	8-719-970-14	DIODE GL1HY111
D813	8-719-970-14	DIODE GL1HY111
D814	8-719-970-14	DIODE GL1HY111
D815	8-719-970-14	DIODE GL1HY111
D816	8-719-970-14	DIODE GL1HY111
D817	8-719-970-14	DIODE GL1HY111
D818	8-719-970-14	DIODE GL1HY111
D819	8-719-970-14	DIODE GL1HY111
D820	8-719-970-14	DIODE GL1HY111
D821	8-719-970-14	DIODE GL1HY111
D822	8-719-970-14	DIODE GL1HY111
D823	8-719-970-14	DIODE GL1HY111
D824	8-719-970-14	DIODE GL1HY111
D825	8-719-970-14	DIODE GL1HY111
D826	8-719-970-14	DIODE GL1HY111
D827	8-719-970-14	DIODE GL1HY111
D828	8-719-970-14	DIODE GL1HY111
D829	8-719-970-14	DIODE GL1HY111
D830	8-719-970-14	DIODE GL1HY111
D831	8-719-970-14	DIODE GL1HY111
D832	1-808-250-11	LED BLOCK
D832	8-719-936-94	DIODE GL-9EG44
DD301	1-466-151-11	CONVERTER UNIT, DC-DC
F901 ⚠	1-532-360-XX	FUSE, GLASS TUBE 1A
F902 ⚠	1-532-360-XX	FUSE, GLASS TUBE 1A
F903 ⚠	1-532-419-00	FUSE, GLASS TUBE 3.15A
IC101	8-759-981-48	IC TL082M
IC102	8-759-981-48	IC TL082M
IC103	8-759-981-48	IC TL082M
IC150	8-759-631-00	IC M5280FP
IC201	8-759-981-48	IC TL082M
IC202	8-759-981-48	IC TL082M
IC203	8-759-981-48	IC TL082M
IC301	8-759-940-45	IC S-8054HN-CB
IC302	8-759-145-47	IC UPD75108GF-J31-3BE
IC303	8-759-820-15	IC LC7537AN
IC801	8-759-200-80	IC TC4050BF
IC802	8-759-142-03	IC UPD75308GF-017-3B9
L301	1-410-324-11	INDUCTOR 4.7UH
ND801	1-807-318-11	LIQUID CRYSTAL DISPLAY PANEL

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

SEE ADDITIONAL INFORMATION

Ref.No.	Part No.	Description
Q301	8-729-119-76	TRANSISTOR 2SA1175HFE
Q302	8-729-900-53	TRANSISTOR DTC114EK
Q303	8-729-805-20	TRANSISTOR 2SB1202-R
Q304	8-729-900-53	TRANSISTOR DTC114EK
Q305	8-729-807-12	TRANSISTOR 2SD1802
Q306	8-729-119-78	TRANSISTOR 2SC2785HFE
Q307	8-729-307-72	TRANSISTOR 2SD1077L-C
Q308	8-729-805-20	TRANSISTOR 2SB1202-R
Q309	8-729-901-00	TRANSISTOR DTC124EK
Q310	8-729-119-78	TRANSISTOR 2SC2785HFE
Q311	8-729-901-00	TRANSISTOR DTC124EK
Q312	8-729-201-53	TRANSISTOR 2SA1015-GR
Q313	8-729-805-20	TRANSISTOR 2SB1202-R
Q314	8-729-900-53	TRANSISTOR DTC114EK
Q315	8-729-900-53	TRANSISTOR DTC114EK
Q316	8-729-900-53	TRANSISTOR DTC114EK
Q317	8-729-900-53	TRANSISTOR DTC114EK
Q318	8-729-900-53	TRANSISTOR DTC114EK
Q319	8-729-900-53	TRANSISTOR DTC114EK
Q320	8-729-900-53	TRANSISTOR DTC114EK
Q321	8-729-900-53	TRANSISTOR DTC114EK
Q322	8-729-900-53	TRANSISTOR DTC114EK
Q323	8-729-900-53	TRANSISTOR DTC114EK
Q324	8-729-271-22	TRANSISTOR 2SC2712G
Q325	8-729-271-22	TRANSISTOR 2SC2712G
Q326	8-729-900-53	TRANSISTOR DTC114EK
Q327	8-729-900-53	TRANSISTOR DTC114EK
Q328	8-729-900-53	TRANSISTOR DTC114EK
Q329	8-729-900-53	TRANSISTOR DTC114EK
Q330	8-729-900-53	TRANSISTOR DTC114EK
Q801	8-729-106-68	TRANSISTOR 2SD1615A-GP
Q802	8-729-900-53	TRANSISTOR DTC114EK
Q803	8-729-900-53	TRANSISTOR DTC114EK
Q804	8-729-900-53	(West Germany)...TRANSISTOR DTC114EK
Q805	8-729-900-53	TRANSISTOR DTC114EK
R101	1-260-016-11	CARBON MELF 47K 1% 1/8W
R102	1-260-008-11	CARBON MELF 10K 1% 1/8W
R103	1-260-028-11	CARBON MELF 470K 1% 1/8W
R104	1-259-926-11	(West Germany)...CARBON MELF 2K 1% 1/8W
R104	1-259-997-11	CARBON MELF 1.5K 1% 1/8W
R107	1-260-020-11	CARBON MELF 100K 1% 1/8W
R108	1-259-995-11	CARBON MELF 1K 1% 1/8W
R109	1-259-998-11	CARBON MELF 1.8K 1% 1/8W
R110	1-260-002-11	CARBON MELF 3.3K 1% 1/8W
R111	1-260-005-11	CARBON MELF 5.6K 1% 1/8W
R112	1-260-008-11	CARBON MELF 10K 1% 1/8W
R113	1-260-011-11	CARBON MELF 18K 1% 1/8W
R114	1-260-020-11	CARBON MELF 100K 1% 1/8W
R115	1-259-995-11	CARBON MELF 1K 1% 1/8W
R116	1-260-028-11	CARBON MELF 470K 1% 1/8W
R117	1-260-028-11	CARBON MELF 470K 1% 1/8W
R118	1-259-992-11	CARBON MELF 560 1% 1/8W
R119	1-260-008-11	CARBON MELF 10K 1% 1/8W
R120	1-260-020-11	CARBON MELF 100K 1% 1/8W
R121	1-259-997-11	CARBON MELF 1.5K 1% 1/8W
R122	1-260-003-11	CARBON MELF 3.9K 1% 1/8W
R123	1-259-995-11	CARBON MELF 1K 1% 1/8W
R124	1-260-008-11	CARBON MELF 10K 1% 1/8W
R125	1-259-995-11	CARBON MELF 1K 1% 1/8W

Ref.No.	Part No.	Description
R126	1-260-020-11	CARBON MELF 100K 1% 1/8W
R127	1-260-028-11	CARBON MELF 470K 1% 1/8W
R128	1-259-983-11	CARBON MELF 100 1% 1/8W
R129	1-259-995-11	CARBON MELF 1K 1% 1/8W
R130	1-260-008-11	CARBON MELF 10K 1% 1/8W
R131	1-259-995-11	CARBON MELF 1K 1% 1/8W
R132	1-259-979-11	CARBON MELF 47 1% 1/8W
R133	1-259-982-11	CARBON MELF 82 1% 1/8W
R134	1-259-985-11	CARBON MELF 150 1% 1/8W
R135	1-259-988-11	CARBON MELF 270 1% 1/8W
R136	1-259-991-11	CARBON MELF 470 1% 1/8W
R137	1-259-994-11	CARBON MELF 820 1% 1/8W
R138	1-259-983-11	CARBON MELF 100 1% 1/8W
R150	1-259-998-11	CARBON MELF 1.8K 1% 1/8W
R151	1-259-977-11	CARBON MELF 33 1% 1/8W
R152	1-259-915-11	CARBON MELF 240 1% 1/8W
R153	1-259-927-11	CARBON MELF 2.4K 1% 1/8W
R154	1-259-998-11	CARBON MELF 1.8K 1% 1/8W
R155	1-259-991-11	CARBON MELF 470 1% 1/8W
R201	1-260-016-11	CARBON MELF 47K 1% 1/8W
R202	1-260-008-11	CARBON MELF 10K 1% 1/8W
R203	1-260-028-11	CARBON MELF 470K 1% 1/8W
R204	1-259-926-11	(West Germany)...CARBON MELF 2K 1% 1/8W
R204	1-259-997-11	CARBON MELF 1.5K 1% 1/8W
R207	1-260-020-11	CARBON MELF 100K 1% 1/8W
R208	1-259-995-11	CARBON MELF 1K 1% 1/8W
R209	1-259-998-11	CARBON MELF 1.8K 1% 1/8W
R210	1-260-002-11	CARBON MELF 3.3K 1% 1/8W
R211	1-260-005-11	CARBON MELF 5.6K 1% 1/8W
R212	1-260-008-11	CARBON MELF 10K 1% 1/8W
R213	1-260-011-11	CARBON MELF 18K 1% 1/8W
R214	1-260-020-11	CARBON MELF 100K 1% 1/8W
R215	1-259-995-11	CARBON MELF 1K 1% 1/8W
R216	1-260-028-11	CARBON MELF 470K 1% 1/8W
R217	1-260-028-11	CARBON MELF 470K 1% 1/8W
R218	1-259-992-11	CARBON MELF 560 1% 1/8W
R219	1-260-008-11	CARBON MELF 10K 1% 1/8W
R220	1-260-020-11	CARBON MELF 100K 1% 1/8W
R221	1-259-997-11	CARBON MELF 1.5K 1% 1/8W
R222	1-260-003-11	CARBON MELF 3.9K 1% 1/8W
R223	1-259-995-11	CARBON MELF 1K 1% 1/8W
R224	1-260-008-11	CARBON MELF 10K 1% 1/8W
R225	1-259-995-11	CARBON MELF 1K 1% 1/8W
R226	1-260-020-11	CARBON MELF 100K 1% 1/8W
R227	1-260-028-11	CARBON MELF 470K 1% 1/8W
R228	1-259-983-11	CARBON MELF 100 1% 1/8W
R229	1-259-995-11	CARBON MELF 1K 1% 1/8W
R230	1-260-008-11	CARBON MELF 10K 1% 1/8W
R231	1-259-995-11	CARBON MELF 1K 1% 1/8W
R232	1-259-979-11	CARBON MELF 47 1% 1/8W
R233	1-259-982-11	CARBON MELF 82 1% 1/8W
R234	1-259-985-11	CARBON MELF 150 1% 1/8W
R235	1-259-988-11	CARBON MELF 270 1% 1/8W
R236	1-259-991-11	CARBON MELF 470 1% 1/8W
R237	1-259-994-11	CARBON MELF 820 1% 1/8W
R238	1-259-983-11	CARBON MELF 100 1% 1/8W
R301	1-259-995-11	CARBON MELF 1K 1% 1/8W
R302	1-260-008-11	CARBON MELF 10K 1% 1/8W

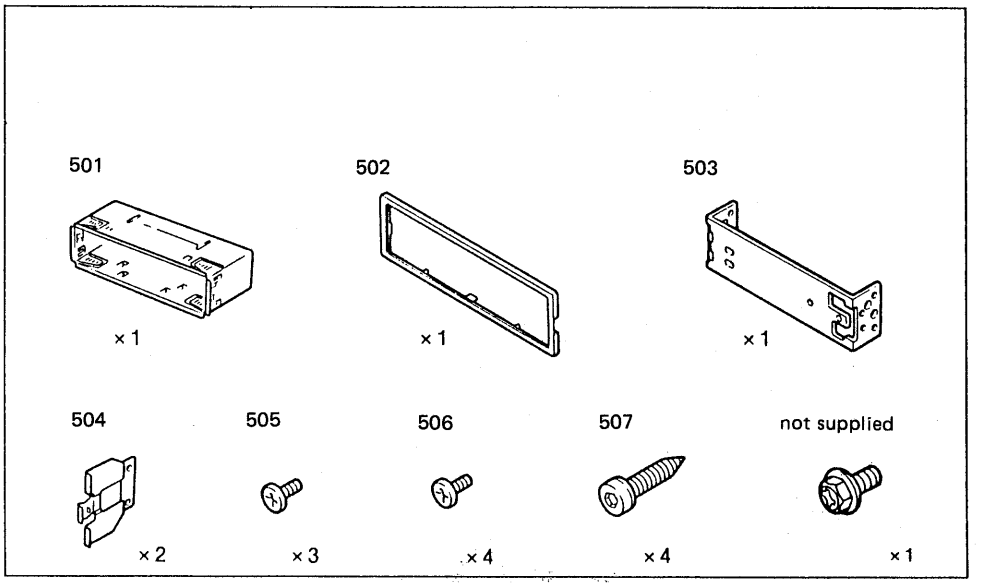
SEE ADDITIONAL INFORMATION

Ref.No.	Part No.	Description
R303	1-259-995-11	CARBON MELF 1K 1% 1/8W
R304	1-259-995-11	CARBON MELF 1K 1% 1/8W
R305	1-259-959-11	CARBON MELF 1 1% 1/8W
R306	1-259-995-11	CARBON MELF 1K 1% 1/8W
R307	1-259-995-11	CARBON MELF 1K 1% 1/8W
R308	1-259-999-11	CARBON MELF 2.2K 1% 1/8W
R309	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R310	1-216-230-00	METAL GLAZE 22K 5% 1/8W
R311	1-259-999-11	CARBON MELF 2.2K 1% 1/8W
R312	1-260-012-11	CARBON MELF 22K 1% 1/8W
R313	1-260-016-11	CARBON MELF 47K 1% 1/8W
R314	1-259-995-11	CARBON MELF 1K 1% 1/8W
R315	1-260-008-11	CARBON MELF 10K 1% 1/8W
R316	1-260-008-11	CARBON MELF 10K 1% 1/8W
R317	1-260-008-11	CARBON MELF 10K 1% 1/8W
R318	1-260-008-11	CARBON MELF 10K 1% 1/8W
R319	1-260-008-11	CARBON MELF 10K 1% 1/8W
R320	1-260-012-11	CARBON MELF 22K 1% 1/8W
R321	1-260-008-11	CARBON MELF 10K 1% 1/8W
R322	1-260-008-11	CARBON MELF 10K 1% 1/8W
R323	1-260-008-11	CARBON MELF 10K 1% 1/8W
R324	1-260-008-11	CARBON MELF 10K 1% 1/8W
R325	1-260-008-11	CARBON MELF 10K 1% 1/8W
R326	1-259-995-11	CARBON MELF 1K 1% 1/8W
R327	1-259-995-11	CARBON MELF 1K 1% 1/8W
R328	1-260-008-11	CARBON MELF 10K 1% 1/8W
R329	1-260-008-11	CARBON MELF 10K 1% 1/8W
R330	1-216-222-00	(West Germany)...METAL GLAZE 10K 5% 1/8W
R331	1-260-008-11	CARBON MELF 10K 1% 1/8W
R332	1-260-016-11	CARBON MELF 47K 1% 1/8W
R333	1-260-004-11	CARBON MELF 4.7K 1% 1/8W
R334	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R335	1-260-016-11	CARBON MELF 47K 1% 1/8W
R336	1-260-008-11	CARBON MELF 10K 1% 1/8W
R337	1-260-008-11	CARBON MELF 10K 1% 1/8W
R338	1-260-008-11	CARBON MELF 10K 1% 1/8W
R339	1-259-995-11	CARBON MELF 1K 1% 1/8W
R340	1-259-995-11	CARBON MELF 1K 1% 1/8W
R341	1-259-995-11	CARBON MELF 1K 1% 1/8W
R342	1-259-995-11	CARBON MELF 1K 1% 1/8W
R343	1-259-995-11	CARBON MELF 1K 1% 1/8W
R344	1-260-016-11	CARBON MELF 47K 1% 1/8W
R345	1-260-008-11	CARBON MELF 10K 1% 1/8W
R346	1-216-073-00	(US,Canadian,AEP) ...METAL GLAZE 10K 5% 1/10W
R347	1-259-995-11	CARBON MELF 1K 1% 1/8W
R348	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R349	1-259-995-11	CARBON MELF 1K 1% 1/8W
R350	1-260-016-11	CARBON MELF 47K 1% 1/8W
R351	1-260-008-11	CARBON MELF 10K 1% 1/8W
R352	1-260-016-11	CARBON MELF 47K 1% 1/8W
R353	1-260-008-11	CARBON MELF 10K 1% 1/8W
R354	1-259-959-11	CARBON MELF 1 1% 1/8W
R801	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R802	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R803	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R804	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R805	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R806	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R807	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R808	1-216-182-00	METAL GLAZE 220 5% 1/8W
R809	1-216-192-00	METAL GLAZE 560 5% 1/8W
R810	1-216-192-00	METAL GLAZE 560 5% 1/8W
R811	1-216-192-00	METAL GLAZE 560 5% 1/8W
R812	1-216-192-00	METAL GLAZE 560 5% 1/8W
R813	1-216-192-00	METAL GLAZE 560 5% 1/8W
R814	1-216-192-00	METAL GLAZE 560 5% 1/8W
R815	1-216-192-00	METAL GLAZE 560 5% 1/8W
R816	1-216-192-00	METAL GLAZE 560 5% 1/8W
R817	1-216-192-00	METAL GLAZE 560 5% 1/8W
R818	1-249-429-11	CARBON 10K 5% 1/4W
R819	1-216-192-00	METAL GLAZE 560 5% 1/8W
R820	1-216-182-00	(West Germany)...METAL GLAZE 220 5% 1/8W
RY301	1-515-683-11	RELAY
RY302	1-515-683-11	RELAY
RY303	1-515-683-11	RELAY
RY304	1-515-683-11	RELAY
RY305	1-515-683-11	RELAY
RY306	1-515-683-11	RELAY
RY307	1-515-683-11	RELAY
RY308	1-515-683-11	RELAY
RY309	1-515-683-11	RELAY
RY310	1-515-683-11	RELAY
RY311	1-515-683-11	RELAY
RY312	1-515-683-11	RELAY
RY313	1-515-683-11	RELAY
RY314	1-515-683-11	RELAY
RY315	1-515-683-11	RELAY
RY316	1-515-683-11	RELAY
RY317	1-515-683-11	RELAY
S301	1-570-358-11	SWITCH, SLIDE (DIRECT)
S801	1-554-813-41	SWITCH, KEY BOARD (RESET)
S802	1-554-813-41	SWITCH, KEY BOARD (POWER)
S803	1-554-813-41	(US,Canadian,AEP) ...SWITCH, KEY BOARD (MUTE)
S803	1-554-813-41	(West Germany)...SWITCH, KEY BOARD(SDK)
S804	1-554-813-41	SWITCH, KEY BOARD (FM/AM)
S805	1-554-813-41	SWITCH, KEY BOARD (CD/▶II)
S806	1-554-813-41	SWITCH, KEY BOARD (AUX)
S807	1-554-813-41	SWITCH, KEY BOARD (MEMORY)
S808	1-554-813-41	SWITCH, KEY BOARD (SHUFFLE)
S809	1-554-813-41	SWITCH, KEY BOARD (SENSE)
S810	1-554-813-41	SWITCH, KEY BOARD (SEEK/AMS;▶▶I)
S811	1-554-813-41	SWITCH, KEY BOARD (SEEK/AMS;I◀◀)
S812	1-554-813-41	SWITCH, KEY BOARD (LEVEL;+)
S813	1-554-813-41	SWITCH, KEY BOARD (LEVEL;-)
S814	1-554-813-41	SWITCH, KEY BOARD (MANUAL;▶▶)
S815	1-554-813-41	SWITCH, KEY BOARD (MANUAL;◀◀)
S817	1-554-813-41	SWITCH, KEY BOARD (SELECT)
S818	1-554-813-41	SWITCH, KEY BOARD (P.G.M.PLAY)
X301	1-567-170-00	OSCILLATOR, CERAMIC 4.19MHz
X801	1-567-170-00	OSCILLATOR, CERAMIC 4.19MHz

ACCESSORY & PACKING MATERIAL

1-559-674-11	CORD (WITH PLUG)	
2-358-580-01	HOLDER (PLUG)	
*2-358-593-01	CUSHION (UPPER)	
*2-358-597-01	CUSHION (LOWER)	
*2-138-008-01	(West Germany).....INDIVIDUAL CARTON	
*2-358-598-01	(US,Canadian,AEP)...INDIVIDUAL CARTON	
3-339-410-01	(US,Canadian,AEP)...COVER (2), PIN JACK	
3-750-459-11	(US,Canadian,AEP)...MANUAL, INSTRUCTION	
3-750-459-41	(AEP).....MANUAL, INSTRUCTION	
3-750-459-51	(West Germany).....MANUAL, INSTRUCTION	
3-750-460-11	(US,Canadian,AEP)...MANUAL, INSTRUCTION	
3-750-460-41	(AEP).....MANUAL, INSTRUCTION	
3-750-460-51	(West Germany).....MANUAL, INSTRUCTION	

• MOUNTING HARDWARE



MOUNTING HARDWARE

No.	Part No.	Description	Remarks
501	3-323-219-01	FRAME, FITTING	
502	2-182-318-01	FRAME, ORNAMENTAL	
503	2-358-545-01	BRACKET, BASE	
504	3-339-403-01	(AEP,West Germany)...SPRING	
	3-339-403-31	(US,Canadian).....SPRING	
505	7-621-775-20	SCREW +B 2.6X5	
506	3-329-814-01	SCREW (M4X6), SPECIAL PAN (+)	
507	2-138-002-01	SCREW (M5X40), TAPPING	

9-953-973-11

Sony Corporation
Mobile Electronics Group

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RM-X2001/X2001VF

SONY

SERVICE MANUAL

US Model
Serial No. 13,601 and later
Canadian Model
Serial No. 10,301 and later
AEP Model
Serial No. 14,741 and later
RM-X2001
WG Model
Serial No. 10,285 and later
RM-X2001VF

SUPPLEMENT-1

Subject: Hideaway Unit Section Circuit Modification

This supplement updates the service manual to include production changed.
File this supplement with the service manual.

• CHANGED AND ADDED ELECTRICAL PARTS LIST

Ref. No.	FORMER		NEW	
	Part No.	Description	Part No.	Description
C150	1-130-495-00	MYLAR 0.1μF 5% 50V	1-126-059-11	ELECT 10μF 20% 50V
C151	1-130-495-00	MYLAR 0.1μF 5% 50V	1-126-059-11	ELECT 10μF 20% 50V
D345	–	–	8-719-110-03	DIODE RD7.5ES-B2
D346	–	–	8-719-110-03	DIODE RD7.5ES-B2
DD301	1-466-151-11	CONVERTER UNIT, DC-DC	1-466-303-11	TRANSFORMER UNIT, CONVERTER
IC101	8-759-981-48	IC TL082M	8-759-710-78	IC NJM082BM
IC102	8-759-981-48	IC TL082M	8-759-710-78	IC NJM082BM
IC103	8-759-981-48	IC TL082M	8-759-710-78	IC NJM082BM
IC201	8-759-981-48	IC TL082M	8-759-710-78	IC NJM082BM
IC202	8-759-981-48	IC TL082M	8-759-710-78	IC NJM082BM
IC203	8-759-981-48	IC TL082M	8-759-710-78	IC NJM082BM
R104	1-259-926-11	(West Germany)... CARBON MELF 2K 1% 1/8W	1-259-999-11	(West Germany)... CARBON MELF 2.2K 1% 1/8W
R204	1-259-926-11	(West Germany)... CARBON MELF 2K 1% 1/8W	1-259-999-11	(West Germany)... CARBON MELF 2.2K 1% 1/8W
R330	1-216-222-00	(West Germany)... METAL GLAZE 10K 5% 1/8W	1-216-073-00	(West Germany)... METAL GLAZE 10K 5% 1/10W
R355	–	–	1-260-002-11	CARBON MELF 3.3K 1% 1/8W
R356	–	–	1-260-002-11	CARBON MELF 3.3K 1% 1/8W

9-953-973-81

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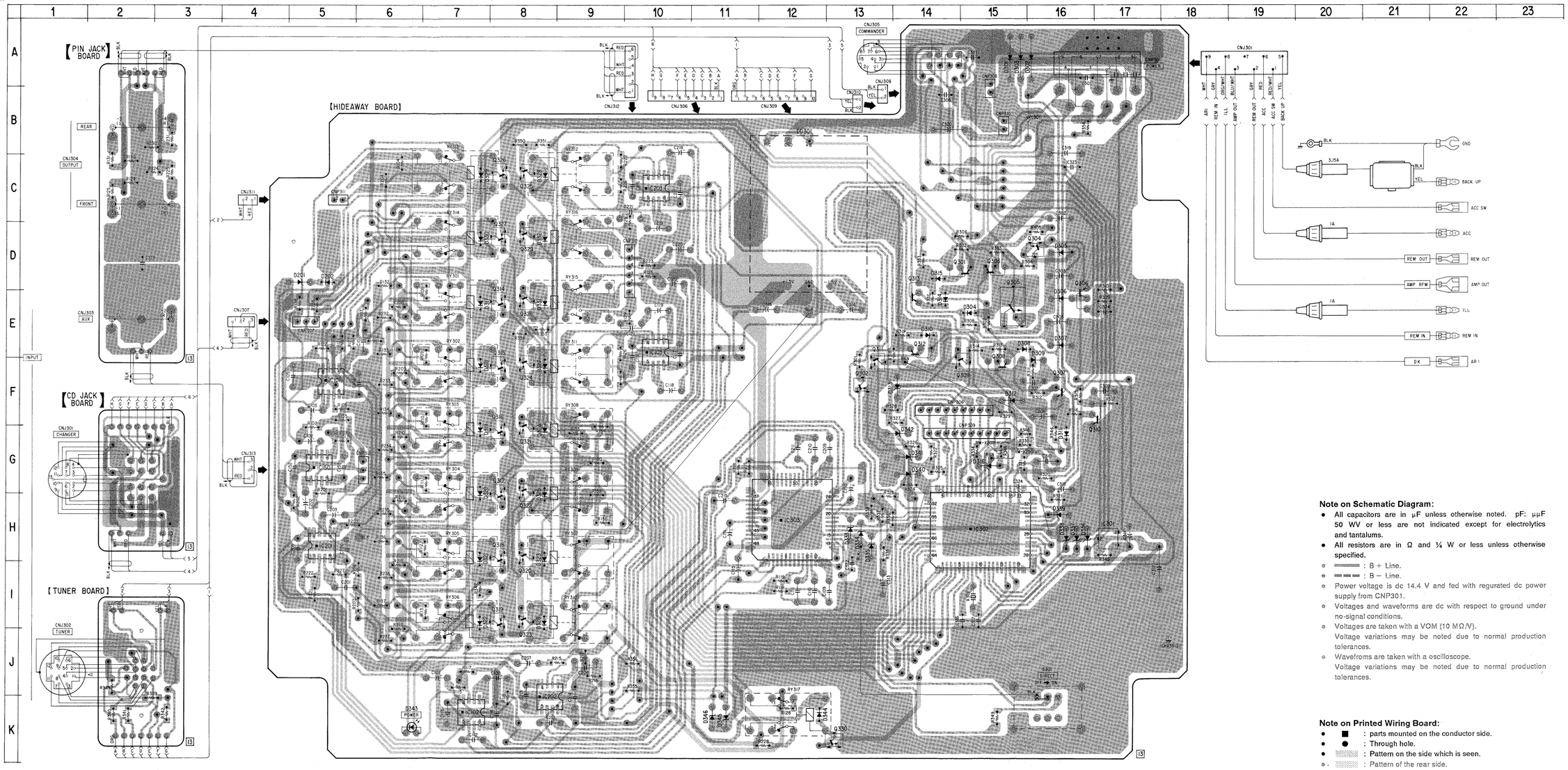
• HIDEAWAY UNIT SECTION PRINTED WIRING BOARDS

• Semiconductor Location

Ref. No.	Location
D201	D-5
D202	D-5
D301	A-15
D302	A-16
D303	A-15
D304	E-15
D305	D-16
D306	E-16
D307	E-16
D308	E-15
D309	F-16
D310	E-14
D311	G-16
D312	F-15
D313	F-14
D314	E-14
D315	D-14
D316	G-15
D317	E-7
D318	F-7
D319	G-7
D320	H-7
D321	H-7
D322	I-7
D323	H-8
D324	G-8
D325	G-8
D326	I-8
D327	F-8
D328	C-8
D329	C-7
D330	D-7
D331	E-8
D332	D-8
D333	H-13
D334	H-13
D335	H-13
D336	H-16
D337	H-16
D338	H-16
D339	H-16
D340	G-14
D341	G-14
D342	G-14
D343	K-6
D344	K-12
D345	K-11
D346	K-11
IC101	F-5
IC102	K-7
IC103	E-10
IC150	G-5
IC201	H-5
IC202	K-8
IC203	C-10
IC301	H-17
IC302	H-15
IC303	H-12
Q301	D-15
Q302	F-13
Q303	D-15
Q304	D-16
Q305	E-15
Q306	E-16
Q307	F-16
Q308	F-15
Q309	F-15
Q310	F-17
Q311	E-13
Q312	E-14
Q313	D-14
Q314	E-8
Q315	F-8
Q316	G-8
Q317	G-8
Q318	H-8
Q319	I-8
Q320	I-8
Q321	G-8
Q322	H-8
Q323	I-8
Q324	F-8
Q325	C-8
Q326	C-8
Q327	D-8
Q328	E-8
Q329	D-8
Q330	K-13

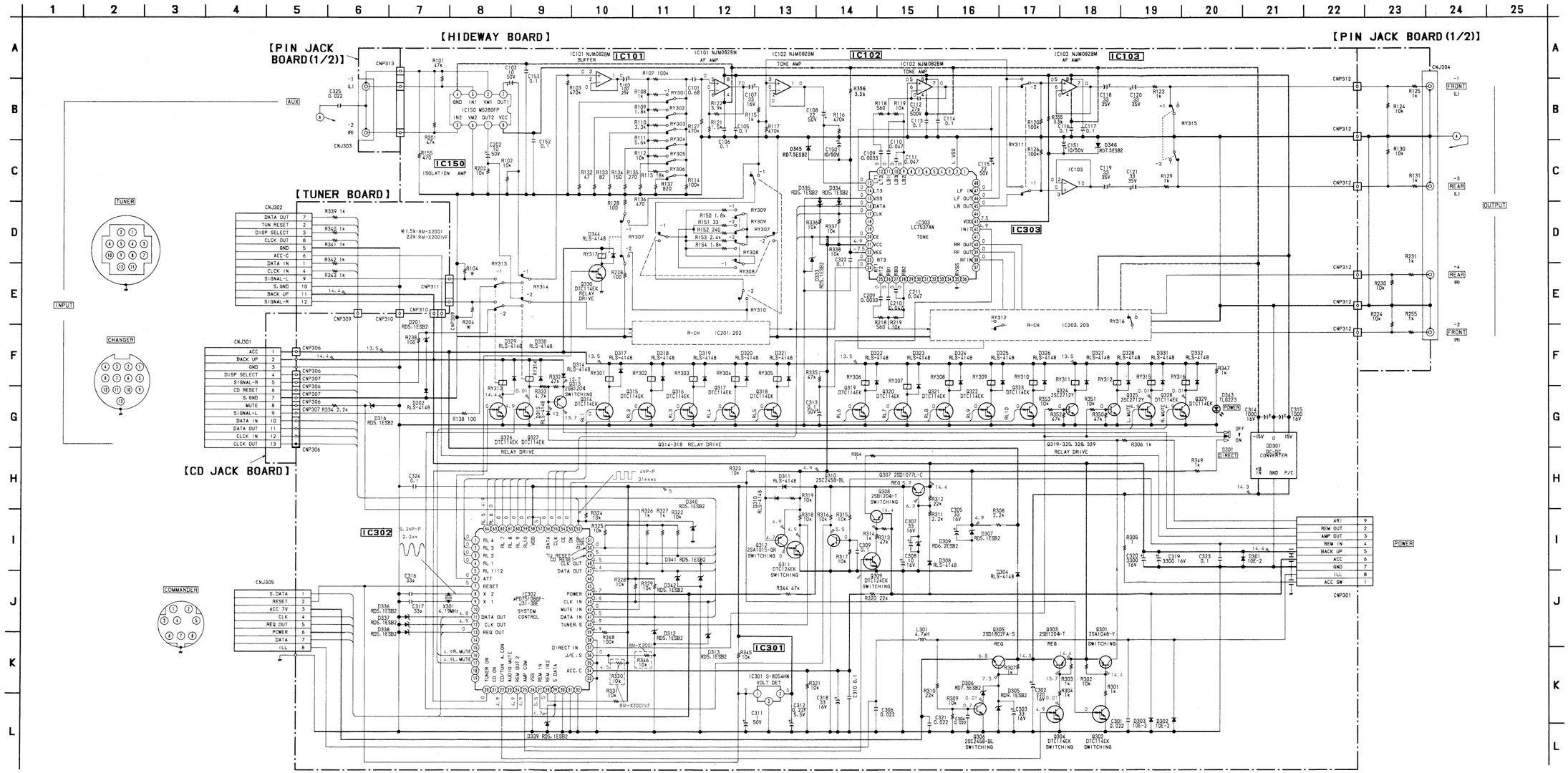


Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- ⎓ : B + Line.
- ⎓ : B − Line.
- Power voltage is dc 14.4 V and fed with regurated dc power supply from CNP301.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Wavefroms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.

Note on Printed Wiring Board:

- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.


【HIDEAWAY BOARD】
【PIN JACK BOARD(1/2)】
【TUNER BOARD】
【CD JACK BOARD】
【PIN JACK BOARD(1/2)】
IC101 NJM0828M BUFFER
IC101 NJM0828M AF AMP
IC102 NJM0828M TONE AMP
IC102 NJM0828M TONE AMP
IC103 NJM0828M AF AMP
IC150 M5280FP ISOLATION AMP
IC303 LC7537AN TONE
IC302 μPD75308F-J31-SBE SYSTEM CONTROL
IC301 S-8054HN VOLT DET
R-CH IC201, 202
R-CH IC202, 203
TUNER
CHANGER
COMMANDER
INPUT
OUTPUT
POWER
AUX
FRONT
REAR
CNJ303
CNJ302
CNJ301
CNJ305
CNJ304
CNP301
CNP311
CNP312
CNP306
CNP307
CNP309
CNP310
DATA OUT
TUN RESET
DISP SELECT
CLK OUT
GND
ACC-C
DATA IN
CLK IN
SIGNAL-L
S.GND
BACK UP
SIGNAL-R
ACC
BACK UP
GND
DISP SELECT
SIGNAL-R
CD RESET
S.GND
MUTE
SIGNAL-L
DATA IN
DATA OUT
CLK IN
CLK OUT
S.DATA
RESET
ACC 7V
CLK
REQ OUT
POWER
DATA
ILL
ANT
REM OUT
AMP OUT
REM IN
BACK UP
ACC
GND
ILL
ACC SW
DC/DC CONVERTER
RELAY DRIVE
SWITCHING
*1.5k:RM-X2001
2.2k:RM-X2001VF
RM-X2001
RM-X2001VF